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What is claimed is:

1. A method for automatically determining from a plurality of display fields displayed on a computer monitor the location of a first display field having a characteristic and a second display field having a predefined relationship with the first display field comprising the steps of:

identifying the first display field from among the plurality of display fields based on the characteristic of the first display field; and

identifying the second display field from among the plurality of display fields based on the predefined relationship between the second display field and the identified first display field.

- The method of claim 1, wherein the first display field is a password display field and the second display field is a user identification display field.
- 3. The method of claim 1, wherein said step of identifying the first display field with the characteristic comprises monitoring display fields displayed on the computer monitor and detecting the first display field having the characteristic.
 - 4. The method of claim 3, wherein the characteristic is a non-display attribute.
- The method of claim 4, wherein an emulator generates display fields on the computer monitor and said step of monitoring comprises examining a new display field in

response to an interrupt generated by said emulator when a cursor is positioned within said new display field.

- 6. The method of claim 1, wherein said step of identifying the second display field comprises monitoring the display fields displayed on the computer monitor and determining which display field has the predefined relationship with the first display field.
- 7. The method of claim 6, wherein an emulator generates display fields on the computer monitor and said step of monitoring comprises examining a new display field in response to an interrupt generated by said emulator when a cursor is positioned within said new display field.
- 8. The method of claim 6, wherein said predefined relationship between the second display field and the first display field is that the second display field is the first non-empty display field preceding the first display field.
- 9. The method of claim 6, wherein the predefined relationship is that the second display field is positioned a predetermined number of display fields from the first display field.
- 10. The method of claim 6, wherein said predefined relationship is that the second display field is positioned a predetermined number of non-empty display fields from the first display field.

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11. A computer-readable medium having stored thereon instructions which, when executed by a processor of a computer having a computer monitor, cause the processor to perform the steps of:

identifying a first display field displayed on the computer monitor based on a characteristic of said first display field: and

identifying a second display field displayed on the computer monitor based on a predefined relationship between said second display field and said identified first display field.

- 12. The computer-readable medium of claim 11, wherein said step of identifying said first display field with said characteristic comprises monitoring display fields displayed on the computer monitor and detecting the first display field having said characteristic.
- 13. The computer-readable medium of claim 12, wherein said characteristic of said first display field is that it has a non-display attribute.
- 14. The computer-readable medium of claim 11, wherein said step of identifying said second display field comprises monitoring the display fields displayed on the computer monitor and determining which display field has said predefined relationship with said first display field.
- 15. The computer-readable medium of claim 14, wherein said predefined relationship between said second display field and said first display field is that said second display field is the first non-empty display field preceding said first display field.

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16. A system for identifying display fields displayed on a computer monitor comprising a processor and instruction stored on a computer-readable medium, said instruction when performed by said processor cause said system to perform the steps of:

identifying a first display field displayed on the computer monitor based on a characteristic of said first display field; and

identifying a second display field displayed on the computer monitor based on a predefined relationship between said second display field and said identified first display field.

- 17. The system of claim 16, wherein said step of identifying said first display field with said characteristic comprises monitoring display fields displayed on the computer monitor and detecting the first display field having said characteristic.
- 18. The system of claim 17, wherein said characteristic of said first display field is that it has a non-display attribute.
- 19. The system medium of claim 16, wherein said step of identifying said second display field comprises monitoring the display fields displayed on the computer monitor and determining which display field has said predefined relationship with said first display field.
- 20. The system of claim 19, wherein said predefined relationship between said second display field and said first display field is that said second display field is the first non-empty display field preceding said first display field.

as input data;

data.

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21. A method for creating a logon macro from data input into display fields displayed on a computer monitor by an emulator for accessing an application comprising the steps of: recording data input into display fields displayed on the computer monitor; identifying a first display field displayed on the computer monitor based on a

characteristic of said first display field, said first display field receiving a first character string

substituting a first placeholder for said first character string in the recorded input data; identifying a second display field displayed on the computer monitor based on a predetermined relationship between said second display field and said first identified display field, said second display field receiving a second character string as input data; and substituting a second placeholder for said second character string in the recorded input

- 22. The method of claim 21, wherein said step of identifying said first display field comprises monitoring the display fields generated by the emulator on the computer monitor during a logon process and detecting the first display field having said characteristics.
- 23. The method of claim 22, wherein said characteristic of said first display field is that it has a non-display attribute.

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- 24. The method of claim 21, wherein said predefined relationship between said second display field and said first display field is that said second display field is the first non-empty display field preceding said first display field.
- 25. The method of claim 24, wherein said step of identifying said second display field comprises monitoring the display field generated by the emulator on the computer monitor during a logon process and detecting the first non-empty display field preceding said first display field.
- 26. The method of claim 21, wherein said first display field is a password display field and said second display field is a user identification display field.
- 27. The method of claim 21, wherein said steps of substituting said first placeholder and said second placeholder in the recorded data streams occur during the recording of the data input into display field.
- 28. The method of claim 21, wherein said steps of substituting said first placeholder and said second placeholder in the recorded data streams occur after the recording of the data input into display fields is complete.